#### PATENT COOPERATION TREATY

# **PCT**

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference		FOR FURTHER ACT	CION	See Form PCT/IPEA/416			
31144							
International application No.		International f. og date (a	lay/month/year)	Priority date (day/month/year)			
PCT/IL06/00059		15 January 2006 (15.01.20		13 January 2005 (13.01.2005)			
		or national classification and					
IPC: G01T 1/166( 2006.01);A61B 5/05( 2006.01),6/00( 2006.01);G06K 9/00( 2006.01) USPC: 250/370.08,363.04							
Applicant							
SPECTRUM DYNAMICS LLC							
	<ol> <li>This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.</li> </ol>						
2. This I	REPORT consists of	a total of sheets, inclu	uding this cover sheet	t <b>.</b>			
3. This	report is also accompa	anied by ANNEXES, con	nprising:	c1			
a. 🔀	(sent to the applica	nt and to the Internationa	al Bureau) a total of	sheets, as follows:			
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).							
	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.						
Ь. Г	7	• •	otal of (indicate type	and number of electronic carrier(s))			
, containing a sequence listing and/or tables related thereto, in electronic form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).							
4. This	report contains indica	tions relating to the follo	wing items:				
		asis of the report					
		·					
	Box No. II Pr	iority					
	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability			velty, inventive step and industrial			
	Box No. IV La	ick of unity of invention					
	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
	Box No. VI Co	ertain documents cited					
	Box No. VII Co	ertain defects in the intern	ational application				
	Box No. VIII Co	ertain observations on the	international applica	tion			
Date of submission of the demand		Date of completion	of this report				
10 January 2007 (10.01.2007)			01 May 2007 (01.05.2	2007)			
Name and mailing address of the IPEA/US			Authorized officer	Chorda 1 Bell			
Mail Stop PCT, Attn: IPEA/US Commissioner for Patents			Constantine Hannahe	to see			
P.O. Box 1450 Alexandria, Virginia 22313-1450			Telephone No. (571)				
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Form PCT/IPEA/409 (cover sheet)(April 2005)

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International ap	plication No.	
PCT/II:06/000:	59	

Box No. I Basis of the report
1. With regard to the language, this report is based on:
the international application in the language in which it was filed.
a translation of the international application into English, which is the language of a translation furnished for the purposes of:
international search (under Rules 12.3 and 23.1(b))
publication of the international application (under Rule 12.4(a))
international preliminary examination (under Rules 55.2(a) and/or 55.3(a))
2. With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):
the international application as originally filed/furnished
the description:
pages 1,3-7,9-13,16-101 and 103 as originally filed/furnished pages* 2,8,14,15 and 102 received by this Authority on 10 January 2007 (10.01.2007)
pages* NONE received by this Authority on
the claims:
pages 107 as originally filed/furnished
pages* NONE as amended (together with any statement) under Article 19
pages* 104-106 received by this Authority on 10 January 2007 (10.01.2007)
pages* NONE received by this Authority on
the drawings:
pages 1/94-94/94 as originally filed/furnished
pages* NONE received by this Authority on
pages* NONE received by this Authority on
a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.
3. The amendments have resulted in the cancellation of:
the description, pages
the claims, Nos
the drawings, sheets/figs
the sequence listing (specify):
any table(s) related to the sequence listing (specify):
4. This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).
the description, pages
the claims, Nos.
the drawings, sheets/figs
the sequence listing (specify):
any table(s) related to the sequence listing (specify):
any table(s) related to the sequence fishing (specify):
* If item 4 applies, some or all of those sheets may be marked "superseded."

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.	
PCT/IL06/00059	

Box No.	IV	Lack of unity of invention
1.	In res	ponse to the invitation to restrict or pay additional fees the applicant has, within the applicable time limit:
		restricted the claims. paid additional fees.
		paid additional fees under protest, and, where applicable, the protest fee
		paid additional fees under protest but the applicable protest fee was not paid
		neither restricted the claims nor paid additional fees
2. 🔀		Authority found that the requirement of unity of invention is not complied with and chose, according to Rule not to invite the applicant to restrict or pay additional fees.
3. This	Autho	rity considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is:
	comp	lied with.
$\boxtimes$	not co	omplied with for the following reasons:
		n contains the following inventions or groups of inventions which are not so linked as to form a single general inventive CT Rule 13.1.
Group I,	, claim(	s) 1, drawn to a method of image reconstruction of a multi-isotope source.
Group II,	, claim	(s) 2-4, drawn to a method of determining a future administration dose.
Group II	I, claim	n(s) 5-17, drawn to methods, apparatus, and electronic storage mediums of diagnosing a patient condition.
Rule 13.2 I is not the	2, they he same . or the	listed as Groups I, II, III do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT lack the same or corresponding special technical features for the following reasons: the modeling and solution of Groups, not does it correspond to, the administration of a reduced, and prediction of a future, radiopharmaceutical dose of measurement by SPECT of a behavior of a radiopharmaceutical in vivo of Group III. Likewise, the special technical up II are not the same as, nor do they correspond to, the special technical features of Group III.
4. Cons	sequen	tly, this report has been established in respect of the following parts of the international application:
$\boxtimes$	all	parts
	the	parts relating to claims Nos

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#### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/IL06/00059

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
1. Statement					
Novelty (N)	Claims 1-17	YES			
	Claims NONE				
	01:	YES			
Inventive Step (IS)	Claims 1-17 Claims NONE				
Industrial Applicability (IA)	Claims 1-17				
	Claims NONE	NO NO			
2. Citations and Explanations (Rule 70.7)  Claims 1-17 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest the method of image reconstruction of a multi-isotope source of claim 1, the method for treatment of the human body by therapy of claim 2, the diagnostic methods of claims 3 and 6, or the electronic storage mediums and apparatus for automatic diagnosis of claims 10, 11, and 15.  Claims 1-17 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.  —————— NEW CITATIONS ————————————————————————————————————					
DOT TO 1 (400 M ) 1 (4 ) 2005					
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